

GenCore version 4.5  
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OM protein - protein search, using sw model

Run on: March 1, 2001, 16:09:05 ; Search time 299.73 seconds  
(without alignments)  
24.636 Million cell updates/sec

Title: US-09-331-631a-1\_COPY\_186\_248

Perfect score: 355  
Sequence: 1 KRDPQOREYEDCRRCRCEQDE.....MNPORGSGRYEGEEGDS 63

Scoring table:  
BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 374700 seqs, 117207915 residues

Total number of hits satisfying chosen parameters: 374700

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :  
1: SPREMBL\_15:\*  
2: sp\_archaea:\*  
3: sp\_bacteria:\*  
4: sp\_fungi:\*  
5: sp\_human:\*  
6: sp\_invertebrate:\*  
7: sp\_mammal:\*  
8: sp\_mhc:\*  
9: sp\_organelle:\*  
10: sp\_phage:\*  
11: sp\_plant:\*  
12: sp\_rodent:\*  
13: sp\_virus:\*  
14: sp\_vertebrate:\*  
15: sp\_unclassified:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	355	100.0	666	10 Q9SPPL5	Q9SPPL5 macadamia l
2	332	93.5	666	10 Q9SPPL4	Q9SPPL4 macadamia l
3	320	90.1	625	10 Q9SPPL3	Q9SPPL3 macadamia l
4	125.5	35.4	593	10 Q9SEW4	Q9SEW4 juglans reg
5	120	33.8	525	10 Q43358	Q43358 theobroma c
6	112	31.5	637	10 Q03678	Q03678 hordeum vul
7	92	25.9	810	10 Q9ZWI3	Q9ZWI3 cucurbita m
8	87	24.5	539	4 Q9N0A2	Q9N0A2 homo sapien
9	86	24.2	1655	5 Q24754	Q24754 drosophila
10	82	23.1	1312	5 Q9VJJB	Q9VJJB drosophila
11	82	23.1	1323	5 Q9VJJB	Q9VJJB drosophila
12	81.5	23.0	242	10 Q81260	Q81260 triplacum d
13	81.5	23.0	246	10 Q81261	Q81261 triplacum d
14	80.5	22.7	296	10 Q9S709	Q9S709 arabidopsis
15	79.5	22.4	236	10 Q81254	Q81254 zea mays su
16	79	22.3	411	5 P91419	P91419 caenorhabdi
17	79	22.3	630	5 Q9W4J3	Q9W4J3 drosophila
18	79	22.3	1295	4 Q9P2R8	Q9P2R8 homo sapien
19	79	22.3	1300	11 Q9JMB2	Q9JMB2 mus musculu

20	79	22.3	1303	4 Q9PIX1	Q9PIX1 homo sapien
21	79	22.3	1308	11 Q9JMB2	Q9JMB2 mus musc.
22	78.5	22.1	1128	5 Q9VZ60	Q9VZ60 drosophila
23	77.5	21.8	1483	5 Q9VD46	Q9VD46 drosophila
24	77	21.7	153	5 Q9VPM6	Q9VPM6 drosophila
25	77	21.7	646	2 Q9KM25	Q9KM25 vibrio chol
26	76.5	21.5	1089	12 Q40947	Q40947 kaposi's sa
27	76	21.4	242	10 Q81251	Q81251 zea mays su
28	76	21.4	242	10 Q9SBE6	Q9SBE6 zea mays su
29	76	21.4	720	5 Q23847	Q23847 dictyosteli
30	76	21.4	906	4 Q9UN21	Q9UN21 homo sapien
31	76	21.4	2123	5 Q9V957	Q9V957 dictyosteli
32	75.5	21.3	3469	5 Q9U412	Q9U412 drosophila
33	75.5	21.3	330	5 Q18118	Q18118 caenorhabdi
34	75.5	21.3	535	5 Q9U1N0	Q9U1N0 chironomus
35	75.5	21.3	556	5 Q76940	Q76940 drosophila
36	75.5	21.3	663	5 Q9W352	Q9W352 drosophila
37	75	21.1	238	10 Q81257	Q81257 zea luxuria
38	75	21.1	393	10 Q9ZTP0	Q9ZTP0 oryza sativ
39	75	21.1	1670	5 Q23901	Q23901 dictyosteli
40	74	20.8	238	10 Q81258	Q81258 zea luxuria
41	74	20.8	238	10 Q9SBE5	Q9SBE5 zea luxuria
42	74	20.8	238	10 Q9SBE6	Q9SBE6 zea luxuria
43	74	20.8	923	4 Q60424	Q60424 homo sapien
44	74	20.8	1038	5 Q60983	Q60983 dictyosteli
45	74	20.8	1129	12 Q9QR71	Q9QR71 kaposi's sa

## ALIGNMENTS

RESULT 1  
ID Q9SPPL5 PRELIMINARY; PRT: 666 AA.

AC Q9SPPL5; 01-MAY-2000 (TREMBLrel. 13, Created)  
DT 01-MAY-2000 (TREMBLrel. 13, Last sequence update)  
DE 01-OCT-2000 (TREMBLrel. 15, Last annotation update)  
DE VICILIN PRECURSOR.  
GN AMP2.  
OS Macadamia integrifolia (Macadamia nut).  
OC Eukaryota; Viridiplantae; Embryophyta; Tracheophyta; Spermatophyta;  
OC Magnoliophyta; eudicotyledons; Proteaceae; Macadamia.  
OX NCBI\_Taxid:60698;  
RN [1]  
RP SEQUENCE FROM N.A.  
RC TISSUE=NOT KNOWN.  
RA Marcus J.P., Goulet K.C., Green J.L., Manners J.M.;  
RT "A family of antimicrobial peptides is produced by processing of a 7S  
RT globulin protein in Macadamia integrifolia kernels.";  
RL Plant J. 0:0-(1999).  
DR EMBL: AF161883; AAD54244.1; -.  
DR HSSP: P02853; 2PHL.  
DR INTERPRO: IPR001113; -.  
DR PRAM: PF00546; Seedstore\_7s; 1.  
SQ SEQUENCE 666 AA; 78217 MW; C752B84BD0224 CRC64;

Query Match 100.0%; Score 355; DB 10; Length 666;  
Best Local Similarity 100.0%; Pred. No. 4,7e-35;  
Matches 63; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KRDPQOREYEDCRRCRCEQDEPRQOHOCOLCRCEQOHGGRGDMNPORGSGRYEGEE 60  
DB 186 KRDPQOREYEDCRRCRCEQDEPRQOHOCOLCRCEQOHGGRGDMNPORGSGRYEGEE 245

QY 61 EOS 63  
DB 246 EOS 248

RESULT 2  
Q9SPPL4

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ID 09SP14 PRELIMINARY; PRT: 666 AA.
AC 09SP14;
DT 01-MAY-2000 (Tremblrel. 13, Created)
DT 01-MAY-2000 (Tremblrel. 13, Last sequence update)
DT 01-OCT-2000 (Tremblrel. 15, Last annotation update)
DE VICILIN PRECURSOR.
GN AMP2.
OS Macadamia integrifolia (Macadamia nut).
OC Eukaryota; Viridiplantae; Embryophyta; Tracheophyta; Spermatophyta;
OC Magnoliophyta; eudicotyledons; Proteaceae; Macadamia.
OX NCBI_TaxID=60698;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=NUIT KERNEL;
RA Marcus J.P., Goulter K.C., Green J.L., Manners J.M.;
RT "A family of antitumor peptides is produced by processing of a 7S
  globulin protein in Macadamia integrifolia."
RL Plant J. 0:0-0(1999)
DR EMBL: AF161884; AAD54245.1; -
DR HSSP: P02853; 2PHL.
DR INTERPRO: IPR001113; -
DR PFAM: PF00546; Seedstore_7s; 1.
SQ SEQUENCE 666 AA; 78243 MW; 0ECA2F8710F8A7B CRC64;

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Query Match 93.5%; Score 332; DB 10; Length 666;
Best Local Similarity 92.1%; Pred. No. 2.8e-32;
Matches 58; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

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OY 1 KRDPQREYEDCRRRCRCEQEPPOOHOCOLRCRQOQROHGRGGMNPPORGSRYEGEE 60
    |||||
DB 186 KRDPQREYEDCRRRCRCEQEPPOOHOCOLRCRQOQROHGRGGLINPORGSGRYEGEE 245
    |||||
OY 61 EQS 63
    :||
DB 246 KQS 248

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RESULT 3
09SP13 PRELIMINARY; PRT: 625 AA.
AC 09SP13;
DT 01-MAY-2000 (Tremblrel. 13, Created)
DT 01-MAY-2000 (Tremblrel. 13, Last sequence update)
DT 01-OCT-2000 (Tremblrel. 15, Last annotation update)
DE VICILIN PRECURSOR (FRAGMENT).
GN AMP2.
OS Macadamia integrifolia (Macadamia nut).
OC Eukaryota; Viridiplantae; Embryophyta; Tracheophyta; Spermatophyta;
OC Magnoliophyta; eudicotyledons; Proteaceae; Macadamia.
OX NCBI_TaxID=60698;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=NUIT KERNEL;
RA Marcus J.P., Goulter K.C., Green J.L., Manners J.M.;
RT "A family of antitumor peptides is produced by processing of a 7S
  globulin protein in Macadamia integrifolia."
RL Plant J. 0:0-0(1999)
DR EMBL: AF161885; AAD54246.1; -
DR HSSP: P02853; 2PHL.
DR INTERPRO: IPR001113; -
DR PFAM: PF00546; Seedstore_7s; 1.
FT NON_TER 1
SQ SEQUENCE 625 AA; 73586 MW; 415808A89D370296 CRC64;

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Query Match 90.1%; Score 320; DB 10; Length 625;
Best Local Similarity 88.9%; Pred. No. 7.5e-31;
Matches 56; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

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OY 1 KRDPQREYEDCRRRCRCEQEPPOOHOCOLRCRQOQROHGRGGMNPPORGSRYEGEE 60
    |||||
DB 145 KRDPQREYEDCRRRCRCEQEPPOOHOCOLRCRQOQROHGRGGLINPORGSGRYEGEE 204
    |||||

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OY 61 EQS 63
    :||
DB 205 KQS 207

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RESULT 4
09SEW4 PRELIMINARY; PRT: 593 AA.
AC 09SEW4;
DT 01-MAY-2000 (Tremblrel. 13, Created)
DT 01-MAY-2000 (Tremblrel. 13, Last sequence update)
DT 01-OCT-2000 (Tremblrel. 15, Last annotation update)
DE VICILIN-LIKE PROTEIN PRECURSOR (FRAGMENT).
OS Juglans regia (English walnut).
OC Eukaryota; Viridiplantae; Embryophyta; Tracheophyta; Spermatophyta;
OC Magnoliophyta; eudicotyledons; core eudicots; Rosidae; eurosids I;
OC Fagales; Juglandaceae; Juglans.
OX NCBI_TaxID=51240;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=CV. SUNLAND; TISSUE=SOMATIC EMBRYO LINE;
RA Teuber S.S., Jarvis K.C., Peterson W.R., Dandekar A.M., Ansari A.A.;
RT "Identification and cloning of a cDNA encoding a vicillin-like protein,
  Jug r 2, from English walnut kernel (Juglans regia): a major food
  allergen."
RL Submitted (MAY-1998) to the EMBL/Genbank/DBJ databases.
DR EMBL: AF066055; AAF18269.1; -
DR HSSP: P02853; 2PHL.
DR INTERPRO: IPR001113; -
DR PFAM: PF00546; Seedstore_7s; 1.
FT NON_TER 1
SQ SEQUENCE 593 AA; 69990 MW; 9BA127E19B18C0D8 CRC64;

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Query Match 35.4%; Score 125.5; DB 10; Length 593;
Best Local Similarity 45.9%; Pred. No. 2.2e-07;
Matches 28; Conservative 11; Mismatches 17; Indels 5; Gaps 4;

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OY 1 KRDPQREYEDCRRRC-EEQEPPOOHOCOLRC-REQOQROHGR-GSDMMNPPORGSRYE 56
    :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
DB 116 KRDPQ-QYHRCORRQOLQSPEROROCQRCERQYKEQGRERPEASPRRESGRE 174
    :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
OY 57 E 57
    |
DB 175 E 175

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RESULT 5
043358 PRELIMINARY; PRT: 525 AA.
AC 043358;
DT 01-NOV-1996 (Tremblrel. 01, Created)
DT 01-NOV-1996 (Tremblrel. 01, Last sequence update)
DT 01-OCT-2000 (Tremblrel. 15, Last annotation update)
DE VICILIN PRECURSOR.
GN CSV.
OS Theobroma cacao (Cacao).
OC Eukaryota; Viridiplantae; Embryophyta; Tracheophyta; Spermatophyta;
OC Magnoliophyta; eudicotyledons; core eudicots; Rosidae; eurosids II;
OC Malvales; Malvaceae; Theobroma.
OX NCBI_TaxID=3641;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=LEAVES;
RX MEDLINE=92288309; PubMed=1600151;
RA McHenry L., Filtz P.J.;
RT "Comparison of the structure and nucleotide sequences of vicillin genes
  of cocoa and cotton raise questions about vicillin evolution."
RL Plant Mol. Biol. 18:1173-1176(1992).
DR EMBL: X62625; CAA44493.1; -
DR HSSP: X62626; CAA44494.1; -
DR HSSP: P02853; 2PHL.

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RA Brandon R.C., Rogers V.-H.C., Blazewicz R.G., Champe M., Pfeiffer B.D.,  
 Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Miklos G.L.G.,  
 Arill J.F., Agayani A., An H.-J., Andrews-Pfannkuch C., Baldwin D.,  
 Baillet R.M., Basu A., Bakendale J., Bayraktaroglu L., Beasley E.M.,  
 Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,  
 Borikova D., Borchan M.R., Bouck J., Brokstein P., Brotter P.,  
 Burris K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,  
 Cherry J.M., Cawley S., Dahle C., Davenport L.B., Davies P.,  
 De Pablos B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,  
 Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,  
 Durbin K.J., Evangelista C.C., Ferraz C., Ferreira S., Fleischmann W.,  
 R. Foster C., Gabriellian A.E., Garg N.S., Gelbart W.M., Glasser K.,  
 Glodok A., Gong F., Gorelli J.H., Gu Z., Guan P., Harris M.,  
 Harris N.L., Harvey D., Helman T.J., Hernandez J.R., Houck J.,  
 Hostin D., Houston K., Howland T.J., Wei M.-H., Idegawa C.,  
 Jalali M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A.,  
 Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,  
 Lasko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,  
 Liu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.,  
 Merkulov G., Mishina N.V., Mobarry C., Morris J., Moshrefi A.,  
 Mount S.M., Moy M., Murphy B., Murphy L., Muny D.M., Nelson D.L.,  
 Nelson D.R., Nelson K.A., Nixon K., Nusskern D.R., Pachek J.M.,  
 Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,  
 Reinert K., Remington K., Saunders R.D.C., Scheeler F., Shen H.,  
 Shue B.C., Siden-Klamos I., Simpson M., Skupski M.P., Smith T.,  
 Spier E., Spradling K.A., Stapleton M., Strong R., Sun E.,  
 Svirskas R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,  
 Wang Z.-Y., Wasserman D.A., Weinstein G.M., Weissbach J.,  
 Williams S.M., Woodage T., Worley K.C., Wu D., Yang S., Yao Q.A.,  
 Zheng J., Yeh R.-F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,  
 Zheng X.H., Zhong F.N., Zhong W., Zhou X., Zhu S., Zhu X., Smith H.O.,  
 Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.,  
 "The genome sequence of *Drosophila melanogaster*."  
 Science 287:2185-2195(2000).  
 EMBL: AEO03652; AAF5346.1;  
 DR FLYBASE: FBgn0032592; CG4668.  
 DR INTERPRO: IPR001777;  
 DR INTERPRO: IPR001865;  
 DR PFAM: PF00041; fn3; 8.  
 DR PRINTS: PRO0014; ENTPEIT1.  
 DR PROSITE: PS00962; RIBOSOMAL\_S2\_1; UNKNOWN\_1.  
 SQ SEQUENCE 1323 AA; 144904 MW; 937642564FF61532D CRC64;

Query Match 23.1%; Score 82; DB 5; Length 1323;  
 Best Local Similarity 36.2%; Pred. No. 0.082;  
 Matches 21; Conservative 6; Mismatches 19; Indels 12; Gaps 2;

OY 14 RRCRCEQERQHQCOLRCRQEQORHGRCGDMNPRQGS-----GREGESEERQ 63  
 DB 217 RRLPQHQGOAHQ----VAQDQDSQARNGNPQHPQRAGSSVGSVGSGTSEDEDMSS 270

RESULT 12  
 ID 081260 PRELIMINARY: PRT: 242 AA.  
 AC 081260;  
 DT 01-NOV-1998 (TREMBlrel. 08, Created)  
 DT 01-NOV-1998 (TREMBlrel. 08, Last sequence update)  
 DT 01-OCT-2000 (TREMBlrel. 15, Last annotation update)  
 DE GLOBULIN-1 (FRAGMENT).  
 OS Tripsacum dactyloides (Gama grass).  
 OC Eukaryota; Viridiplantae; Embryophyta; Tracheophyta; Spermatophyta;  
 OC Magnoliophyta; Liliopsida; Poales; Poaceae; Tripsacum.  
 NCBI\_TaxID=4563;  
 OX [1]  
 RN SEQUENCE FROM N.A.  
 RP Hilton H., Gaut B.S.;  
 RT "Speciation and domestication in maize and its wild relatives:  
 RT evidence from the globulin-1 gene."  
 RL EMBL: AF064234; AAC31477.1;  
 DR HSP; P50477; ICAU.

DR MENDEL; 31902; Trida;1188;31902.  
 DR INTERPRO: IPR001113;  
 DR PFAM: PF00546; Seedstore\_7s; 1.  
 FT NON\_TER 242 242  
 SQ SEQUENCE 242 AA; 27810 MW; CFI13BFA73429776 CRC64;

Query Match 23.0%; Score 81.5; DB 10; Length 242;  
 Best Local Similarity 35.2%; Pred. No. 0.02;  
 Matches 19; Conservative 8; Mismatches 24; Indels 3; Gaps 1;

OY 12 CRRRCQERQHQCOLRCRQEQORHGRCGDMNPRQ---GSGRYEGEERQ 62  
 DB 38 CARRCEDRPMHQRCLEQCREREKQQRSRHREADRREGSGSGDERERERQ 91

RESULT 13  
 ID 081261 PRELIMINARY: PRT: 246 AA.  
 AC 081261;  
 DT 01-NOV-1998 (TREMBlrel. 08, Created)  
 DT 01-NOV-1998 (TREMBlrel. 08, Last sequence update)  
 DT 01-OCT-2000 (TREMBlrel. 15, Last annotation update)  
 DE GLOBULIN-1 (FRAGMENT).  
 OS Tripsacum dactyloides (Gama grass).  
 OC Eukaryota; Viridiplantae; Embryophyta; Tracheophyta; Spermatophyta;  
 OC Magnoliophyta; Liliopsida; Poales; Poaceae; Tripsacum.  
 NCBI\_TaxID=4563;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RP Hilton H., Gaut B.S.;  
 RT "Speciation and domestication in maize and its wild relatives:  
 RT evidence from the globulin-1 gene."  
 RL Genetics 0:0-0(1998)  
 DR EMBL: AF064235; AAC31478.1;  
 DR HSP; P50477; ICAU.  
 DR MENDEL; 31903; Trida;1188;31903.  
 DR INTERPRO: IPR000901;  
 DR INTERPRO: IPR001113;  
 DR PFAM: PF00546; Seedstore\_7s; 1.  
 DR PROSITE: PS00667; CPASASE\_2; UNKNOWN\_1.  
 FT NON\_TER 246 246  
 SQ SEQUENCE 246 AA; 28408 MW; 8D9B45991P9C5F9 CRC64;

Query Match 23.0%; Score 81.5; DB 10; Length 246;  
 Best Local Similarity 35.2%; Pred. No. 0.02;  
 Matches 19; Conservative 8; Mismatches 24; Indels 3; Gaps 1;

OY 12 CRRRCQERQHQCOLRCRQEQORHGRCGDMNPRQ---GSGRYEGEERQ 62  
 DB 38 CARRCEDRPMHQRCLEQCREREKQQRSRHREADRREGSGSGDERERERQ 91

RESULT 14  
 ID 09S709 PRELIMINARY: PRT: 296 AA.  
 AC 09S709;  
 DT 01-MAY-2000 (TREMBlrel. 13, Created)  
 DT 01-MAY-2000 (TREMBlrel. 13, Last sequence update)  
 DT 01-JUN-2000 (TREMBlrel. 14, Last annotation update)  
 DE T22C5.10.  
 GN T17H3.14.  
 OS Arabidopsis thaliana (Mouse-ear cress).  
 OC Eukaryota; Viridiplantae; Embryophyta; Tracheophyta; Spermatophyta;  
 OC Magnoliophyta; eudicotyledons; core eudicots; Rosidae; eurosids II;  
 OC Brassicales; Brassicaceae; Arabidopsis.  
 NCBI\_TaxID=3702;  
 OX [1]  
 RN SEQUENCE FROM N.A.  
 RP Chao Q., Brooks S., Buehler E., Johnson-Hopson C., Khan S., Kim C.,  
 Shih P., Altafi H., Bel Q., Chin C., Chiu J., Choi E., Conn L.,  
 Conway A., Gonzales A., Hansen N., Howng B., Koo T., Lam B., Lee J.,

RA Lenz C., Li J., Liu A., Liu K., Liu S., Mukharly N., Nguyen M.,  
 RA Palm C., Pham P., Sakano H., Schwartz J., Southwick A., Thaveri A.,  
 RA Toriumi M., Vaysberg M., Yu G., Federspiel N.A., Theologis A.,  
 RA Ecker J.R.;  
 RT "Genomic sequence for Arabidopsis thaliana BAC T22C5 from chromosome  
 RT I.";  
 RL Submitted (JAN-2000) to the EMBL/Genbank/DBJ databases.  
 RN [2]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN-CV. COLUMBIA;  
 RA Vysotskaya V.S., Schwartz J.R., Yu G., Toriumi M., Lenz C., Liu S.,  
 RA Lee J.M., Liu A., Li J., Gonzalez A., Liu K., Vaysberg M., Sakano H.,  
 RA Chin C., Howng B., Choi E., Chlou J., Altafi H., Araujo R., Brooks S.,  
 RA Buehler E., Chao Q., Conn L., Conway A.B., Dunn P., Hansen N.,  
 RA Huizar L., Khan S., Kim C., Palm C., Rowley D., Shinn P., Walker M.,  
 RA Davis R.W., Ecker J.R., Federspiel N.A., Theologis A.;  
 RT "Arabidopsis thaliana chromosome 1 BAC T17H3 sequence.";  
 RL Submitted (AUG-1999) to the EMBL/Genbank/DBJ databases.  
 DR EMBL: AC012375; AAF24943.1; -;  
 DR EMBL: AC005916; AAD46002.1; -;  
 DR INTERPRO: IPR000504; -;  
 DR INTERPRO: IPR000571; -;  
 DR PFM: PF00076; ttm; 1.  
 DR PFM: PF00642; zt-CCGH; 2.  
 DR PFM: PF00642; zt-CCGH; 2.  
 SQ SEQUENCE 296 AA; 34572 MW; F284D29BF68445BF CRC64;

Query Match 22.7%; Score 80.5; DB 10; Length 296;

Best local Similarity 34.9%; Pred. No. 0.032; DB 10; Length 296;

Matches 22; Conservative 7; Mismatches 33; Indels 1; Gaps 1;

QY 1 KRDPQREYEDCRRCRCEQEPPOHOCOLRCRQROHGRGGMNPNORGS-GRYEEGE 59

DB 215 RRDPSHREFSHRDRDEFYRHSRGSKRSRSEPERGDSGRQASPKRGSGPGREGS 274

QY 60 EQQ 62

DB 275 EER 277

RESULT 15

ID 081254 PRELIMINARY; PRT: 236 AA.

AC 081254;

DT 01-NOV-1998 (TREMBLERL. 08, Created)

DT 01-NOV-1998 (TREMBLERL. 08, Last sequence update)

DT 01-OCT-2000 (TREMBLERL. 15, Last annotation update)

DE GLOBULIN-1 (FRAGMENT).

OS Zea mays subsp. parviglumis.

OC Eukaryota; Viridiplantae; Embryophyta; Tracheophyta; Spermatophyta;

OC Magnoliophyta; Liliopsida; Poales; Poaceae; Zea.

OX NCB1\_Taxid-76912;

RN [1]

RP SEQUENCE FROM N.A.

RA Hilton H., Gaut B.S.;

RT "Speciation and domestication in maize and its wild relatives:

RT evidence from the Globulin-1 gene.";

RL Genetics 0:0-0(1998).

DR EMBL: AF064222; AAC31465.1; -;

DR HSSP: PS0477; ICAU

DR MENDEL; 31896; Zeama; 1188; 31896.

DR INTERPRO: IPR000901; -;

DR INTERPRO: IPR001113; -;

DR PFM: PF00546; Seedstore\_7s; 1.

DR PROSITE: PS00867; CPSASE\_2; UNKNOWN\_1.

FT NON\_TER 236

SQ SEQUENCE 236 AA; 27050 MW; 36A7D94C5213F206 CRC64;

Query Match 22.4%; Score 79.5; DB 10; Length 236;  
 Best local Similarity 33.3%; Pred. No. 0.034;  
 Matches 17; Conservative 8; Mismatches 21; Indels 5; Gaps 1;

QY 12 CRRKCEQEPPOHOCOLRCRQROHGRGGMNPNORGS-GRYEEGE 62  
 DB 40 CVRCECDRWQHPRCTLECCREERSRHEAD------RSGEGSSFEDERRK 85

Search completed: March 1, 2001, 16:09:07  
 Job time: 1551 sec